

Title (en)  
HYDRO-EXPANSION CHUCK AND THE USE THEREOF

Title (de)  
HYDRODEHNSPANNWERKZEUG UND DESSEN VERWENDUNG

Title (fr)  
OUTIL DE SERRAGE HYDRAULIQUE ET SON UTILISATION

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Application  
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Abstract (en)  
[origin: WO2019196973A1] The invention relates to a hydro-expansion chuck (1) for clamping a workpiece (2), comprising at least one channel (3) integrated therein for receiving a hydraulic fluid, wherein the hydraulic fluid is provided to be pressurized in order to clamp the workpiece (2) securely in the hydro-expansion chuck (1). The hydro-expansion chuck (1) is produced by an additive manufacturing method and is designed to be substantially annular, wherein the at least one channel (3) comprises at least one annular circumferential channel section (3a, 3b) which is configured radially between an inner circumferential surface (4) and an outer circumferential surface (5) of the hydro-expansion chuck (1). According to the invention, the hydro-expansion chuck (1) on the inner circumferential surface (4) has a holding contour (6) comprising a plurality of expansion lugs (6a), wherein a plurality of further channel sections (7) branches off the at least one channel (3), at least one further channel section (7) in each case extending into one of the expansion lugs (6a). The invention further relates to a use of a hydro-expansion chuck (1) of this kind.

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